Milena Bellin

List of Publications by Year
in descending order

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Version: 2024-02-01

56 papers	4,753 citations	201385 27 h-index	168136 53 g-index
57 all docs	57 docs citations	57 times ranked	5614 citing authors

#	Article	IF	Citations
1	Maturation of hiPSC-derived cardiomyocytes promotes adult alternative splicing of SCN5A and reveals changes in sodium current associated with cardiac arrhythmia. Cardiovascular Research, 2023, 119, 167-182.	1.8	13
2	Toward Human Models of Cardiorenal Syndrome in vitro. Frontiers in Cardiovascular Medicine, 2022, 9, .	1.1	3
3	Maturation of hiPSC-derived cardiomyocytes in cardiac microtissues promotes adult alternative splicing of sodium channel revealing mutation effects associated with cardiac arrhythmia. Cardiovascular Research, 2022, 118, .	1.8	2
4	Software Tool for Automatic Quantification of Sarcomere Length and Organization in Fixed and Live 2D and 3D Muscle Cell Cultures In Vitro. Current Protocols, 2022, 2, .	1.3	5
5	Targeting the Kv11.1 (hERG) channel with allosteric modulators. Synthesis and biological evaluation of three novel series of LUF7346 derivatives. European Journal of Medicinal Chemistry, 2021, 212, 113033.	2.6	6
6	Cardiac Tissues From Stem Cells. Circulation Research, 2021, 128, 775-801.	2.0	42
7	Generation, functional analysis and applications of isogenic three-dimensional self-aggregating cardiac microtissues from human pluripotent stem cells. Nature Protocols, 2021, 16, 2213-2256.	5.5	53
8	Generation of three human induced pluripotent stem cell lines, LUMCi024-A, LUMCi025-A, and LUMCi026-A, from two patients with combined oxidative phosphorylation deficiency 8 and a related control. Stem Cell Research, 2021, 53, 102374.	0.3	1
9	Generation of human induced pluripotent stem cell line EURACi006-A and its isogenic gene-corrected line EURACi006-A-1 from an arrhythmogenic cardiomyopathy patient carrying the c.1643delG PKP2 mutation. Stem Cell Research, 2021, 54, 102426.	0.3	0
10	Engineered models of the human heart: Directions and challenges. Stem Cell Reports, 2021, 16, 2049-2057.	2.3	28
11	Cardiac microtissues from human pluripotent stem cells recapitulate the phenotype of long-QT syndrome. Biochemical and Biophysical Research Communications, 2021, 572, 118-124.	1.0	8
12	Inflammation in the Pathogenesis of Arrhythmogenic Cardiomyopathy: Secondary Event or Active Driver?. Frontiers in Cardiovascular Medicine, 2021, 8, 784715.	1.1	14
13	Expanding the editable genome and CRISPRâ€“Cas9 versatility using DNA cutting-free gene targeting based on in trans paired nicking. Nucleic Acids Research, 2020, 48, 974-995.	6.5	25
14	Mechanotransduction and Adrenergic Stimulation in Arrhythmogenic Cardiomyopathy: An Overview of in vitro and in vivo Models. Frontiers in Physiology, 2020, 11, 568535.	1.3	3
15	A Miniaturized EHT Platform for Accurate Measurements of Tissue Contractile Properties. Journal of Microelectromechanical Systems, 2020, 29, 881-887.	1.7	27
16	Human-iPSC-Derived Cardiac Stromal Cells Enhance Maturation in 3D Cardiac Microtissues and Reveal Non-cardiomyocyte Contributions to Heart Disease. Cell Stem Cell, 2020, 26, 862-879.e11.	5.2	337
17	Uncoupling DNA damage from chromatin damage to detoxify doxorubicin. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15182-15192.	3.3	93
18	Generation of human induced pluripotent stem cell line LUMCi027-A and its isogenic gene-corrected line from a patient affected by arrhythmogenic cardiomyopathy and carrying the c.2013delC PKP2 mutation. Stem Cell Research, 2020, 46, 101835.	0.3	7

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19	Generation of two human induced pluripotent stem cell lines, LUMCi020-A and LUMCi021-A, from two patients with Catecholaminergic Polymorphic Ventricular Tachycardia carrying heterozygous mutations in the RYR2 gene. Stem Cell Research, 2020, 45, 101764.	0.3	1
20	Calcium as a Key Player in Arrhythmogenic Cardiomyopathy: Adhesion Disorder or Intracellular Alteration?. International Journal of Molecular Sciences, 2019, 20, 3986.	1.8	29
21	MUSCLEMOTION. Circulation Research, 2018, 122, e5-e16.	2.0	235
22	Large-Scale Simulation of the Phenotypical Variability Induced by Loss-of-Function Long QT Mutations in Human Induced Pluripotent Stem Cell Cardiomyocytes. International Journal of Molecular Sciences, 2018, 19, 3583.	1.8	17
23	Crispr/Cas9 homologous recombination (HR). Drug Discovery Today: Technologies, 2018, 28, 1-2.	4.0	1
24	Subtype-specific promoter-driven action potential imaging for precise disease modelling and drug testing in hiPSC-derived cardiomyocytes. European Heart Journal, 2017, 38, ehw189.	1.0	62
25	Three-dimensional cardiac microtissues composed of cardiomyocytes and endothelial cells co-differentiated from human pluripotent stem cells. Development (Cambridge), 2017, 144, 1008-1017.	1.2	216
26	Human heart disease: lessons from human pluripotent stem cell-derived cardiomyocytes. Cellular and Molecular Life Sciences, 2017, 74, 3711-3739.	2.4	51
27	Coâ€Differentiation of Human Pluripotent Stem Cellsâ€Derived Cardiomyocytes and Endothelial Cells from Cardiac Mesoderm Provides a Threeâ€Dimensional Model of Cardiac Microtissue. Current Protocols in Human Genetics, 2017, 95, 21.9.1-21.9.22.	3.5	21
28	Electrophysiological Analysis of human Pluripotent Stem Cell-derived Cardiomyocytes (hPSC-CMs) Using Multi-electrode Arrays (MEAs). Journal of Visualized Experiments, 2017, , .	0.2	27
29	Human Pluripotent Stem Cell Differentiation into Functional Epicardial Progenitor Cells. Stem Cell Reports, 2017, 9, 1754-1764.	2.3	55
30	Integrating cardiomyocytes from human pluripotent stem cells in safety pharmacology: has the time come?. British Journal of Pharmacology, 2017, 174, 3749-3765.	2.7	104
31	P1079A versatile tool for measuring contraction of adult and human pluripotent stem cell-derived cardiomyocytes in vitro and cardiac muscle in situ. Europace, 2017, 19, iii238-iii239.	0.7	0
32	Integrating cardiomyocytes from human pluripotent stem cells in safety pharmacology: has the time come?. , 2017, 174, 3749.		1
33	Switch From Fetal to Adult SCN5A Isoform in Human Induced Pluripotent Stem Cellâ€Derived Cardiomyocytes Unmasks the Cellular Phenotype of a Conduction Diseaseâ€Causing Mutation. Journal of the American Heart Association, 2017, 6, .	1.6	54
34	A new <scp>hERG</scp> allosteric modulator rescues genetic and drugâ€induced longâ€<scp>QT</scp> syndrome phenotypes in cardiomyocytes from isogenic pairs of patient induced pluripotent stem cells. EMBO Molecular Medicine, 2016, 8, 1065-1081.	3.3	77
35	The cancer's gone, but did chemotherapy damage your heart?. Nature Reviews Cardiology, 2016, 13, 383-384.	6.1	11
36	Inherited heart disease â€“ what can we expect from the second decade of human i<scp>PS</scp> cell research?. FEBS Letters, 2016, 590, 2482-2493.	1.3	31

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37	Readthrough-Promoting Drugs Gentamicin and PTC124 Fail to Rescue Na _v 1.5 Function of Human-Induced Pluripotent Stem Cellâ€"Derived Cardiomyocytes Carrying Nonsense Mutations in the Sodium Channel Gene SCN5A. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	2.1	28
38	Altered calcium handling and increased contraction force in human embryonic stem cell derived cardiomyocytes following short term dexamethasone exposure. Biochemical and Biophysical Research Communications, 2015, 467, 998-1005.	1.0	28
39	Functional maturation of human pluripotent stem cell derived cardiomyocytes inÂvitro â€" Correlation between contraction force andÂelectrophysiology. Biomaterials, 2015, 51, 138-150.	5.7	176
40	Immaturity of Human Stem-Cell-Derived Cardiomyocytes in Culture: Fatal Flaw or Soluble Problem?. Stem Cells and Development, 2015, 24, 1035-1052.	1.1	229
41	Expansion and patterning of cardiovascular progenitors derived from human pluripotent stem cells. Nature Biotechnology, 2015, 33, 970-979.	9.4	165
42	Human iPS cell models of Jervell and Lange-Nielsen syndrome. Rare Diseases (Austin, Tex), 2015, 3, e1012978.	1.8	4
43	Reply to Christ et al.: LQT1 and JLNS phenotypes in hiPSC-derived cardiomyocytes are due to KCNQ1 mutations. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1969-E1969.	3.3	4
44	Recessive cardiac phenotypes in induced pluripotent stem cell models of Jervell and Lange-Nielsen syndrome: Disease mechanisms and pharmacological rescue. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5383-92.	3.3	153
45	Isogenic human pluripotent stem cell pairs reveal the role of a KCNH2 mutation in long-QT syndrome. EMBO Journal, 2013, 32, 3161-3175.	3.5	174
46	Coronary telangiectasia associated with hypertrophic cardiomyopathy. European Journal of Heart Failure, 2012, 14, 1332-1337.	2.9	1
47	Modulation of hERG potassium channel gating normalizes action potential duration prolonged by dysfunctional KCNQ1 potassium channel. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11866-11871.	3.3	54
48	Induced pluripotent stem cells: the new patient?. Nature Reviews Molecular Cell Biology, 2012, 13, 713-726.	16.1	377
49	Dantrolene rescues arrhythmogenic RYR2 defect in a patientâ€specific stem cell model of catecholaminergic polymorphic ventricular tachycardia. EMBO Molecular Medicine, 2012, 4, 180-191.	3.3	298
50	Mouse and human induced pluripotent stem cells as a source for multipotent Isl1⁺cardiovascular progenitors. FASEB Journal, 2010, 24, 700-711.	0.2	110
51	Patient-Specific Induced Pluripotent Stem-Cell Models for Long-QT Syndrome. New England Journal of Medicine, 2010, 363, 1397-1409.	13.9	1,132
52	Acidic Mammalian Chitinase in Dry Eye Conditions. Cornea, 2009, 28, 667-672.	0.9	34
53	CHIT1 and AMCase expression in human gastric mucosa: correlation with inflammation and Helicobacter pylori infection. European Journal of Gastroenterology and Hepatology, 2009, 21, 1119-1126.	0.8	32
54	Chitinase Levels in the Tears of Subjects With Ocular Allergies. Cornea, 2008, 27, 168-173.	0.9	38

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55	Expression profiling characterization of laminin Î±-2 positive MDC. Biochemical and Biophysical Research Communications, 2006, 350, 345-351.	1.0	5
56	Altered glucose metabolism and proteolysis in pancreatic cancer cell conditioned myoblasts: searching for a gene expression pattern with a microarray analysis of 5000 skeletal muscle genes. Gut, 2004, 53, 1159-1166.	6.1	49